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PATENT

APPENDIX A

VERSION MARKED TO SHOW CHANGES MADE

ABSTRACT OF THE DISCLOSURE

There is disclosed a transceiver for use in a base station [(BS)] of a fixed wireless network that communicates with a plurality of subscriber transceivers via time division duplex (TDD) channels. The [BS] transceiver comprises: 1) a receiver front-end for receiving data burst transmissions from the plurality of subscriber transceivers in an uplink portion of a TDD channel, wherein the receiver front-end demodulates the received data burst transmissions into a digital baseband signal in-phase (I) signal and a digital baseband quadrature (Q) signal; 2) a first frequency domain feedforward equalization filter for receiving the I signal [and performing a Fast Fourier Transform on a block of N symbols in the I signal to produce a first symbol estimate sequence]; 3) a second frequency domain feedforward equalization filter for receiving the Q signal [and performing a Fast Fourier Transform on a block of N symbols in the Q signal to produce a second symbol estimate sequence]; 4) an adder for [receiving the first signal estimate sequence on a first input and the second signal estimate sequence on a second input and] producing a combined symbol estimate sequence; 5) a slicer for receiving and quantizing the combined symbol estimate sequence [to produce a sequence of decided symbols]; and 6) a time domain feedback filter for [receiving the sequence of decided symbols and] generating a symbol correction sequence [that is applied to a third input of the adder].